

VERIFYING LOCATION OF A MOBILE NODE

Abstract

A secure router protocol yields a secure router advertisement for inclusion in binding updates between a mobile node and a correspondent node. Inclusion of the mobile node's home address or other security data relating to the mobile node's identity in the secure routing advertisement allows a correspondent node to verify the identity of the mobile node. Furthermore, inclusion of the advertising access router's subnet prefix and signatures allows a correspondent node to verify that the mobile node that sent the binding update is located at the subnet prefix.